Practical – 3

AIM: Implement the given layout using Linear Layout.

CODE:

ActivityMain:

```
package com.example.prac3

import android.os.Bundle

import androidx.activity.enableEdgeToEdge

import androidx.appcompat.app.AppCompatActivity

import androidx.core.view.ViewCompat

import androidx.core.view.WindowInsetsCompat


class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {

        super.onCreate(savedInstanceState)

        enableEdgeToEdge()

        setContentView(R.layout.activity_main)

        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main))   {   v,
insets ->

            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())

            v.setPadding(systemBars.left,           systemBars.top,           systemBars.right,
systemBars.bottom)

            insets

        }

    }

}
```

XML FILE:

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
android:layout_width="match_parent"

android:layout_height="match_parent"

android:orientation="vertical"

android:padding="8dp">


    <!-- Top Half -->
    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="0dp"

        android:layout_weight="1"

        android:orientation="horizontal">


        <!-- Block 1 (Spanning two rows) -->
        <TextView

            android:layout_width="0dp"

            android:layout_height="match_parent"

            android:layout_weight="2"

            android:layout_gravity="center"

            android:background="#E91E63"

            android:gravity="center"

            android:text="1"

            android:textSize="24sp"

            android:textColor="#FFFFFF" />


        <!-- Right-side blocks (Block 2, 3, 4) -->
        <LinearLayout

            android:layout_width="0dp"

            android:layout_height="match_parent"
```

```xml
    android:layout_weight="2"

    android:orientation="vertical">


<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="0dp"

    android:layout_weight="1"

    android:orientation="horizontal">


    <!-- Block 2 -->

    <TextView

        android:layout_width="0dp"

        android:layout_height="match_parent"

        android:layout_weight="1"

        android:background="#4CAF50"

        android:gravity="center"

        android:text="2"

        android:textSize="24sp"

        android:textColor="#FFFFFF" />


    <!-- Block 3 -->

    <TextView

        android:layout_width="0dp"

        android:layout_height="match_parent"

        android:layout_weight="1"

        android:background="#FF9800"

        android:gravity="center"

        android:text="3"
```

```
                android:textSize="24sp"

                android:textColor="#FFFFFF" />

        </LinearLayout>


        <!-- Block 4 -->

        <TextView

            android:layout_width="match_parent"

            android:layout_height="0dp"

            android:layout_weight="1"

            android:background="#F44336"

            android:gravity="center"

            android:text="4"

            android:textSize="24sp"

            android:textColor="#FFFFFF" />

    </LinearLayout>

</LinearLayout>


<!-- Bottom Half -->

<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="0dp"

    android:layout_weight="1"

    android:orientation="horizontal">


    <!-- Left blocks (Block 5, 6) -->

    <LinearLayout

        android:layout_width="0dp"

        android:layout_height="match_parent"
```

```xml
        android:layout_weight="2"

        android:orientation="vertical">


        <!-- Block 5 -->

        <TextView

            android:layout_width="match_parent"

            android:layout_height="0dp"

            android:layout_weight="1"

            android:background="#9C27B0"

            android:gravity="center"

            android:text="5"

            android:textSize="24sp"

            android:textColor="#FFFFFF" />


        <!-- Block 6 -->

        <TextView

            android:layout_width="match_parent"

            android:layout_height="0dp"

            android:layout_weight="1"

            android:background="#03A9F4"

            android:gravity="center"

            android:text="6"

            android:textSize="24sp"

            android:textColor="#FFFFFF" />

    </LinearLayout>


    <!-- Block 1 (Repeating block) -->

    <TextView
```

```xml
        android:layout_width="0dp"

        android:layout_height="match_parent"

        android:layout_weight="2"

        android:background="#E91E63"

        android:gravity="center"

        android:text="1"

        android:textSize="24sp"

        android:textColor="#FFFFFF" />
</LinearLayout>

<!-- Bottom Row -->
<LinearLayout

    android:layout_width="match_parent"

    android:layout_height="0dp"

    android:layout_weight="1"

    android:orientation="horizontal">

    <!-- Block 2 -->
    <TextView

        android:layout_width="0dp"

        android:layout_height="match_parent"

        android:layout_weight="1"

        android:background="#4CAF50"

        android:gravity="center"

        android:text="2"

        android:textSize="24sp"

        android:textColor="#FFFFFF" />
```

```xml
    <!-- Block 3 -->
    <TextView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:background="#FF9800"
        android:gravity="center"
        android:text="3"
        android:textSize="24sp"
        android:textColor="#FFFFFF" />

    <!-- Block 4 -->
    <TextView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:background="#F44336"
        android:gravity="center"
        android:text="4"
        android:textSize="24sp"
        android:textColor="#FFFFFF" />
    </LinearLayout>

</LinearLayout>
```

OUTPUT: